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Title

DEVICE AND METHOD FOR GENERATING EXTENDING CODE AND FOR CHANNEL-SIGNAL SPECTRUM EXTENSION USING EXTENDING CODE IN CODE-DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEM

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ABSTRACT

FIELD: mobile code-division multiple access communication systems. SUBSTANCE: device has pseudonoise (PN) code sequence generator for shaping PN_i and PN_q sequences; orthogonal code generator affording change of differential phase keying phase with intervals of at least two code items; and generator shaping extending codes C_i and C_q by mixing up (221, 223, 224) C_i and C_q code sequences with first and second orthogonal codes so that current phase of extending codes PN_i and PN_q changes in turn state of quadrature phase keying and differential phase keying with respect to preceding phase of extending codes C_i and C_q . EFFECT: reduced maximal-to- medium power ratio without impairing bit error rate characteristic. 27 cl, 22 dwg